

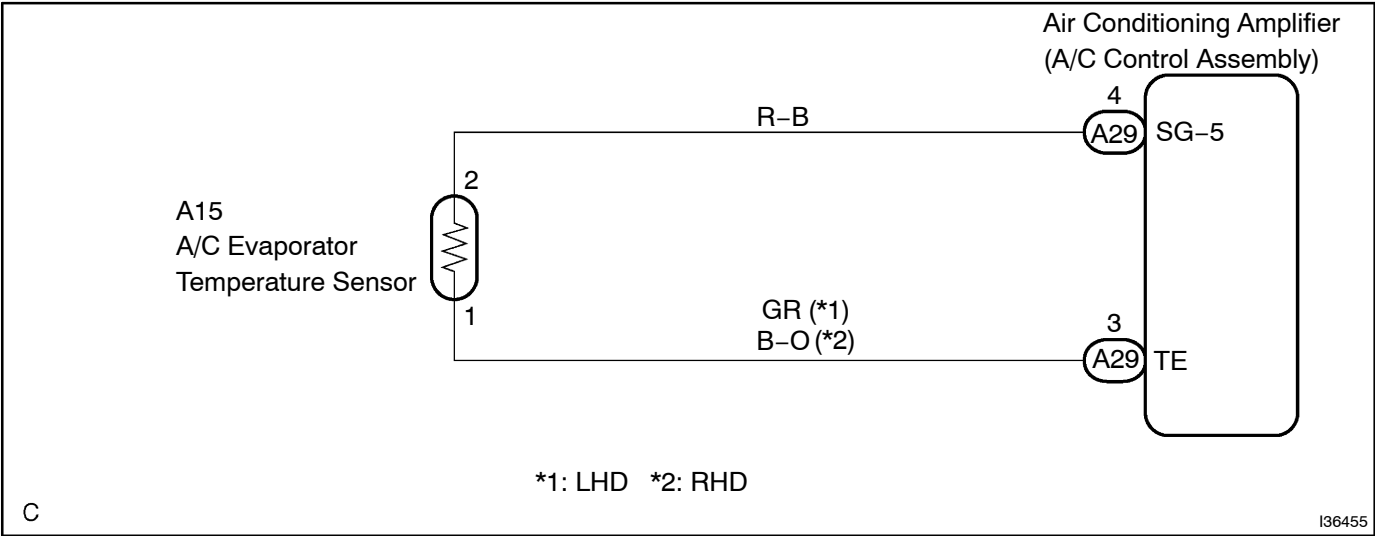
DTC	AUTO,FOOT	EVAPORATOR TEMPERATURE SENSOR CIRCUIT
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CIRCUIT DESCRIPTION

This sensor detects the evaporator temperature and sends the appropriate signals to the A/C amplifier. It is used for frost prevention, temperature and time-lag air flow control.

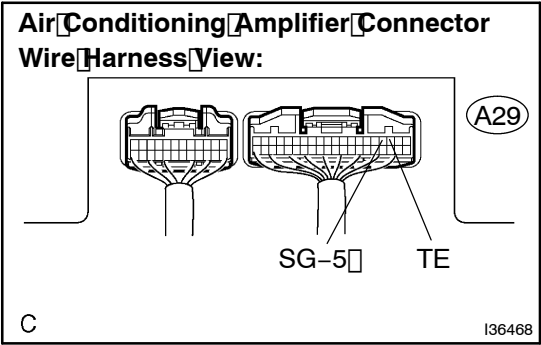
DTC No.	Detection Item	Trouble Area
AUTO, FOOT	Open or short in evaporator temperature sensor	<ul style="list-style-type: none">• A/C evaporator temperature sensor• Harness or connector between A/C evaporator temperature sensor and A/C amplifier• A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT AIR CONDITIONING AMPLIFIER (TE – SG-5)



- (a) Remove the A/C amplifier with the connectors still connected.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
A29-3 (TE) – A29-4 (SG-5)	Ignition switch ON at 0°C (32°F)	2.0 to 2.4 V
A29-3 (TE) – A29-4 (SG-5)	Ignition switch ON at 15°C (59°F)	1.4 to 1.8 V

HINT:

As the temperature increases, the voltage decreases.

Result:

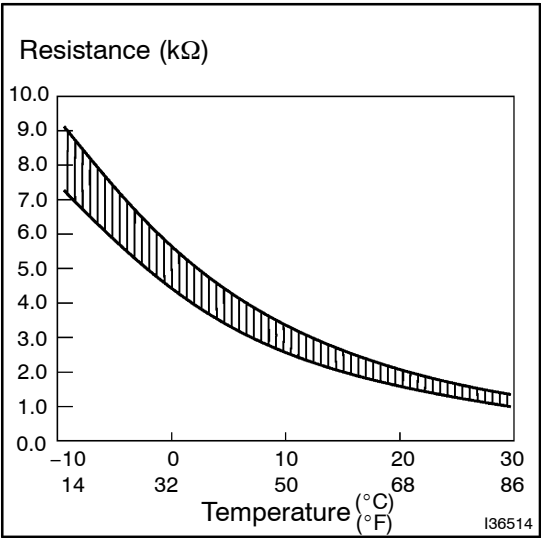
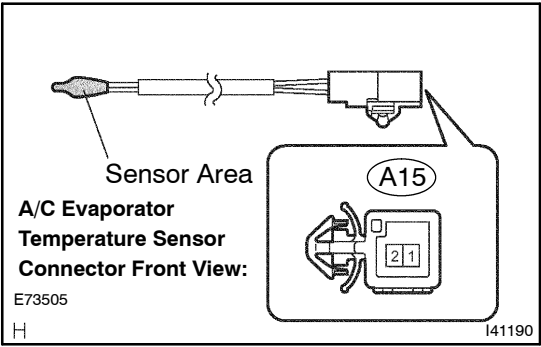
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	B
OK (Checking from the DTC)	C

B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-862)

C REPLACE AIR CONDITIONING AMPLIFIER (SEE PUB. NO. RM864E ON PAGE 55-96)

A

2 INSPECT A/C EVAPORATOR TEMPERATURE SENSOR



- (a) Remove the A/C evaporator temperature sensor.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A15-1 - A15-2	-10°C (14°F)	7.40 to 9.20 kΩ
A15-1 - A15-2	-5°C (23°F)	5.65 to 7.00 kΩ
A15-1 - A15-2	0°C (32°F)	4.35 to 5.40 kΩ
A15-1 - A15-2	5°C (41°F)	3.40 to 4.20 kΩ
A15-1 - A15-2	10°C (50°F)	2.68 to 3.30 kΩ
A15-1 - A15-2	15°C (59°F)	2.10 to 2.66 kΩ
A15-1 - A15-2	20°C (68°F)	1.66 to 2.10 kΩ
A15-1 - A15-2	25°C (77°F)	1.32 to 1.66 kΩ
A15-1 - A15-2	30°C (86°F)	1.05 to 1.35 kΩ

NOTICE:

- Even slightly touching the sensor may change the resistance value. Be sure to hold the connector of the sensor.
- When measuring, the sensor temperature must be the same as the ambient temperature.

HINT:

As the temperature increases, the resistance decreases (see the graph on the left).

NG

REPLACE A/C EVAPORATOR TEMPERATURE SENSOR

HINT:

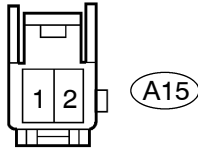
When replacing the evaporator temperature sensor, the attached sub-harness should be replaced along with the sensor.

OK

3

CHECK HARNESS AND CONNECTOR (A/C EVAPORATOR TEMPERATURE SENSOR - AIR CONDITIONING AMPLIFIER) (SEE PAGE 01-32)

A/C Evaporator Temperature Sensor Connector Front View:



I36368
C

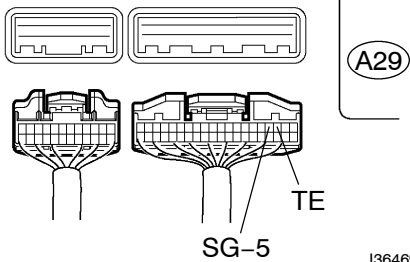
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- (a) Disconnect the connectors from the A/C evaporator temperature sensor and A/C amplifier.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A29-3 (TE) - A15-1	Always	Below 1 Ω
A29-4 (SG-5) - A15-2	Always	Below 1 Ω
A29-3 (TE) - Body ground	Always	10 k Ω or higher
A29-4 (SG-5) - Body ground	Always	10 k Ω or higher

Air Conditioning Amplifier Connector Wire Harness View:



C

SG-5

I36469

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PUB. NO. RM864E ON PAGE 55-96)